1		DAUFUSKIE ISLAND UTILITY COMPANY, INC.
2		DOCKET NO. 2018-364-W/S
3		Testimony of John F. Guastella
4		Before the South Carolina
5		Public Service Commission
6		Testimony Prepared: February 6, 2019
7		Hearing Date: February 28, 2019
8		
9	Q.	Please state your name and business address.
10	A.	John F. Guastella, 725 N. Highway A1A, Suite B103, Jupiter, Florida 33477.
11	Q.	What is your occupation?
12	A.	I am president of Guastella Associates, LLC ("GA").
13	Q.	Briefly describe GA?
14	A.	Guastella Associates provides utility rate, valuation and management consulting
15		services.
16	Q.	Have you previously testified before the South Carolina Public Service
17		Commission ("PSC")?
18	A.	Yes.
19	Q.	Have you attached to this testimony a summary of your qualifications and
20		experience as well as a list of proceedings wherein you have testified as an
21		expert?
22	A.	Yes. The document is Exhibit JFG 4.

- Q. What is your involvement with Daufuskie Island Utility Company, Inc.

  ("DIUC" or "Company")?
- A. GA has been the manager of DIUC since July 9, 2008, when it was acquired from
  Haig Point, Inc. (formerly International Paper Realty Corporation of South
  Carolina). In addition to managing DIUC in accordance with a management
  agreement, GA has provided separate consulting services in connection with formal
  proceedings and matters that are not within its typical management responsibilities.

### 8 Q. What is the purpose of your testimony in this matter?

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- 9 A. My testimony addresses the financial basis for the charges to the Complainants,
  10 Michael and Nancy Halwig and Stephen and Beverly Noller, as well as utility
  11 regulatory principles of equitable treatment among all of DIUC's customers.
  - Q. Why was DIUC unable to continue to provide water and sewer service to the Complainants through the mains that had been installed for that purpose?

While DIUC had previously made every effort to avoid service disruptions and restore service to customers along Driftwood Cottage Lane after unavoidable outages, as described in the Testimony of Michael Guastella, the destruction of the roadway in which mains were located eliminated any possibility of replacing the mains and safely providing continuous utility service to the remaining customers along Driftwood Cottage Lane. The two remaining customers are the Complainants herein (Halwig and Noller). The restoration of roads in the Melrose area is the responsibility of the Melrose Property Owners Association ("MPOA"). In response to our inquiry to the MPOA, its president informed DIUC that the road could not be reconstructed because despite spending over \$60,000 in the spring of 2015 for

sandbags and dumping tons of sand backfill, successive storms completed the destruction and caused even further erosion. MPOA concluded that it cannot 2 reconstruct or protect Driftwood Cottage Lane because it is not allowed to use the 3 materials necessary to ensure any permanence to the effort. 4

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#### 5 What was the alternative to providing water and sewer service to the Q. 6 **Complainants?**

Without the Driftwood Cottage Lane roadway, it became the responsibility of the Complainants to enter into a main or service extension agreement with DIUC and arrange for the construction of new mains that would connect to DIUC's nearest existing mains. Pursuant to state regulations, a utility can charge a Customer Main Extension Fee, which S.C. Reg. §103-502.3 defines as "A fee paid by a customer under a contract entered into by and between the utility and its customer providing terms for the extension of the utility's mains to service the customer."

# Q. What would be the appropriate cost responsibility under a main extension agreement?

Under universally recognized rate setting principles, regulated utilities must charge its customers just and reasonable rates as approved by their regulatory agency. Tariff rates for service include usage rates for connected customers as well as availability rates, both of which are designed to cover the annual operating and capital costs of providing service or having service available. In addition to covering costs, the tariff rates must be designed to reflect intergeneration equity so that current and future customers pay their fair share of the cost of facilities available to serve today's and tomorrow's customers. The rate setting principle of equitable treatment among customers also applies to new extensions of mains and facilities necessary to serve reasonably permanent customers, for which charges are not specific but instead based on a determination of the investment a utility should incur for the new extension that is comparable to its average investment to serve its existing customers.

### Q. Have you applied that analysis to the current facts?

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Yes. On the basis of the position of the MPOA that there is no permanency to support its replacement of the Driftwood Cottage Lane roadway, along with the evidence of high tide intrusion around the Complainants' properties, continuing erosion, and recognition that other customers along Driftwood Cottage Lane have abandoned their properties, the Complainants cannot be considered reasonably permanent customers. Accordingly, no investment should be made by DIUC because it is unlikely that the Complainants would generate ongoing revenues to support an investment comparable to the average investment reflected in the rates being paid by existing customers, thereby shifting the risk of the cost recovery of the investment from the Complainants to existing customers through future rate setting. To proceed otherwise by volunteering to construct and/or absorb costs for the construction and equipment (as sought by the Complainants) would result in unjust and unreasonable rates as to its other customers. Additionally, that result would violate the rate setting principle of equitable treatment among customers.

Using the cost of the extension that has been installed pursuant to the Customer Service Agreement between DIUC and the Complainants, and in order to provide a complete record for the Commission's deliberations, have

you prepared estimates of the investments in water and sewer extension that would have been made by DIUC under the assumption that the Complainants would be reasonably permanent customers?

Yes. The proper analysis is to determine the refund amount, which is the investment that DIUC could make for a main extension to a reasonably permanent customer. For the Commission's consideration I used the cost of the extension that has been installed to analyze the refund amount under three different scenarios: one uses the average annual revenues of all residential customers, as contained in Exhibit JFG 1, another uses an estimate of the Halwig's annual revenue by applying the currently effective rates to the last full year of their usage, as contained in Exhibit JFG 2, and another uses an estimate of the Noller's annual revenues also by applying the currently effective rates to their last full year of usage, as contained in Exhibit JFG 3.

## Q. What does the refund amount represent?

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The refund amount represents the investment that DIUC could make for a main extension to a reasonably permanent customer. More specifically, the existing rates charged to residential customers provide a portion of their annual revenues that cover depreciation and a return on the net investment in mains. The refund formula shown on Exhibits JFG 1, 2 and 3 calculates the amount of investment that DIUC could make so that customers added to the new extension are placed on an equal footing with existing customers in terms of the net investment that their revenues support through the rates. Or, stated slightly differently, by limiting the investment in new mains per customer to the refund amount, the existing customers are

- protected from subsidizing an excessive investment by DIUC to serve customers
  whose revenues would not be adequate to cover the cost of that investment.
- Q. Do your exhibits provide the refund formula and an explanation of each of its components?
- 5 A. Yes.
- 6 Q. What is the source of the amounts of each component included in the exhibits?
- A. The sources of the rate revenues, operating expenses, cost of investment,
  depreciation and return on investment are taken from the financial data that
  comprise the Commission's last rate decision.
- 10 Q. Is the refund formula and the source of data the same for each of your three exhibits?
- 12 A. Yes, except that in Exhibit JFG 1, I use the average annual residential revenues, 13 and in Exhibits JFG 2 and 3, I use an estimate of revenues for the Halwigs and 14 Nollers, respectively, based on their last full year of billed usage, as previously 15 explained.
- 16 Q. Would you please discuss the results of the three calculations?
- 17 A. The results of Exhibit JFG 1 show that on the basis of average annual revenues the
  18 refund or investment that DIUC could make is \$553 for a water main extension and
  19 \$1,376 for a sewer main extension. The average annual revenues would typically
  20 be used when the level of revenues for customers that would connect to a new
  21 extension is unknown and keep in mind that there is an expectation that the new
  22 customers would be reasonably permanent.

Because billing data are available for the Halwigs and Nollers, Exhibits JFG 2 and 3, respectively, use estimates of their previous billing information. Exhibit JFG 2 shows that the refunds or investments that DIUC could make to the Halwigs are \$1,063 for water and \$1,930 for sewer, or a total of \$2,993. Exhibit JFG 3 shows that the refunds or investments that DIUC could make to the Nollers are \$447 for water and \$1,256 for sewer, or a total of \$1,703. Therefore, even if they were reasonably permanent customers, the combined \$4,696 is only a small fraction of the \$112,954.00 cost of the extension. Also, neither amount includes the required gross up for income tax pursuant to the Tax Cuts and Jobs Act.

# Q. Why is there a need to apply a gross-up factor to include income taxes in the charge for the extension?

A. Effective January 1, 2018, the Tax Cuts and Jobs Act ("Tax Act") requires contributions in aid of construction ("CIAC") made to water and sewer utilities for utility facilities to be treated as taxable income. Based upon the Testimony of Michael Guastella and the information included with the proposed Addendum, the transfer of the mains at a construction cost of \$112,954.07 means that DIUC must treat that amount as taxable income subject to a 5% state tax and a 21% federal tax. Using those tax rates, DIUC must collect an additional \$33.24 for every \$100 of CIAC, or \$37,545.93 for total income taxes in order to be left with the construction cost of \$112,954.07.

#### Q. Is the term "contribution in aid of construction" in the CSA?

22 A. Yes. the CSA states that the Project Main "will be treated as contributed for rate setting purposes."

- Q. Is there a South Carolina regulation that defines Contribution in Aid of Construction?
- A. Yes. S.C. Reg. § 103-702.4 defines Customer Contribution in Aid of Construction as "A fee paid by a customer under a contract entered into by and between the utility and its customers providing terms for the extension of the utility's mains to serve the customer."
- Q. Will the outcome of the pending proceeding in SC Public Service Commission

  Bocket No. 2017-381-A regarding the Tax Act impact the need to gross-up the

  CIAC for income taxes?
- 10 A. No. The amount of tax due is not disputed in that docket. It is my understanding
  11 that the primary issue in that proceeding is to determine the extent to which the
  12 reduced tax liability resulting from the 21% tax rate will be passed on to the benefit
  13 of the rates payers through general rates for service. The answer to that question
  14 has no bearing on the analysis I just discussed.
- 15 Q. Up until the initiation of the instant proceeding, did DIUC charge the
  16 Complainants for administrative or management fess?
- 17 A. No. The CSA states, "Under the circumstances of the need for this agreement there
  18 will be no charge for administrative fees." DIUC did not apply administrative costs,
  19 even though extensive amounts of time had been spent on this rather complex
  20 matter by GA personnel and the operators. However, DIUC's legal fees for
  21 negotiating the easement were passed on to the Complainants. Moreover, now that
  22 this matter is being adjudicated in the context of a formal proceeding and the
  23 Complainants have asked the Commission to "undo" the CSA, it is reasonable for

- DIUC to recoup its additional legal fees as well as GA's charges for time and expenses that have been and continue to be incurred. These costs should be born by the Complainants and not deferred and passed on to the other customers in future rate settings. It would be unfair and inequitable for DIUC to proceed in any other manner.
- Q. Will Guastella Associates separately bill DIUC in connection with this matter
   in addition to its regular management fess?
- A. Yes. In accordance with the management agreement between DIUC and GA, charges for GA's consulting service for formal proceedings before the Commission and/or work that is not included in its management duties and responsibilities are to be billed separately.
- Q. In advance of the hearing in this matter will DIUC be able to provide the amounts it has incurred for legal and GA consulting charges?
- 14 A. Yes, we are in the process of calculating those amounts and will provide the same
  15 to the parties and then to the Commission at the hearing.
- 16 Q. Does this conclude your testimony at this time?
- 17 A. Yes.

Daufuskie Island Utility Company, Inc. PSC Docket No. 2018-364-W/S

Exhibit JFG 1

### Extension of Mains Refund Formula Average Annual Revenue

Refund Formula: Credit per ERC = [(A - (A \* B/C)) \* D/E]/r

				Water Syster	n				
	A =	Average annual revenue po	er residential custo	mer (ERC).			\$	749.96	
		Total utility operating expe		(2.1.0).			Ψ	\$824,974	
		Total utility operating reve						\$1,020,831	
1	D =	Investment in T&D Mains of	or Collection System	۱.	UPIS	\$1,509,688			
			•		CIAC	-\$406,881			
					A/D	-\$210,212		\$892,596	
1	E =	Total Net Plant Investment	t.		UPIS	\$3,905,258			
					CIAC	-\$406,881			
					A/D	-\$382,950		\$3,115,427	
1	r =	Overall Rate of Return.						7.46%	
Calculation:	:								
(	CR =	[( \$749.96 - (	\$749.96 *	824,974 /	1,020,831 )) *	* 892,596	/	3,115,427 ] /	7.46%
(	CR =	[( \$749.96 -	606.07 )*	0.2865 ]/	7.46%				
(	CR =	( 143.89 *	0.2865 )/	7.46% =	\$ 553				
				<del></del>					
				Sewer Syster	n				
	Λ –	Average applied revenue p	or recidential custon	mor (FDC)			\$	001 56	
		Average annual revenue po		mer (ERC).			\$	901.56 \$763,944	
		Total utility operating expe Total utility operating reve						\$1,002,928	
		Investment in T&D Mains of		,	UPIS	\$2,118,279		\$1,002,926	
'	U –	investment in 100 Mains (	or conection system	1.	CIAC	-\$183,932			
					A/D	-\$163,932		\$1,666,274	
	E =	Total Net Plant Investment			UPIS	\$4,077,571		71,000,274	
'		Total Net Flant IIIVestillerit			CIAC	-\$183,932			
					A/D	-\$404,688		\$3,488,951	
					7,0	-5404,088		, -,,	
ı	r =	Overall Rate of Return.			ĄU	-3404,088		7.46%	
Calculation:		Overall Rate of Return.			7,0	-3404,066			
Calculation:			\$901.56 *	763,944 /			/		7.46%
Calculation:	:		\$901.56 * 686.73 )*	763,944 / 0.4776 ]/	1,002,928 )) <sup>3</sup> 7.46%		/	7.46%	7.46%

Daufuskie Island Utility Company, Inc. PSC Docket No. 2018-364-W/S

Exhibit JFG 2

# Extension of Mains Refund Formula Estimated Halwig Annual Revenue

Refund Formula: Credit per ERC = [(A - (A \* B/C)) \* D/E]/r

		Water System				
A = Average annual revenue per r	residential custome	er (FRC).			\$1,442.07	
B = Total utility operating expense		(2).			\$824,974	
C = Total utility operating revenue					\$1,020,831	
D = Investment in T&D Mains or C			UPIS	\$1,509,688	, , ,	
	•		CIAC	-\$406,881		
			A/D	-\$210,212	\$892,596	
E = Total Net Plant Investment.			UPIS	\$3,905,258	, ,	
			CIAC	-\$406,881		
			A/D	-\$382,950	\$3,115,427	
r = Overall Rate of Return.					7.46%	
Calculation:						
	,442.07 *	824,974 /	1,020,831 )) *	892,596 /	3,115,427 ] /	7.46%
	165.39 ) *	0.2865 ]/	7.46%			
CR = ( 276.68 *	0.2865 )/	7.46% = \$	1,063			
		Sewer System				
A = Average annual revenue per r	residential custome	er (ERC).			\$1,264.96	
B = Total utility operating expense	e.				\$763,944	
C = Total utility operating revenue	e.				\$1,002,928	
D = Investment in T&D Mains or C	Collection System.		UPIS	\$2,118,279		
			CIAC	-\$183,932		
			A/D	-\$268,073	\$1,666,274	
E = Total Net Plant Investment.			UPIS	\$4,077,571		
			CIAC	-\$183,932		
			A/D	-\$404,688	\$3,488,951	
r = Overall Rate of Return.					7.46%	
Calculation:						
CR = [( \$1,264.96 - ( \$1	,264.96 *	763,944 /	1,002,928 )) *	1,666,274 /	3,488,951 ] /	7.46%
CR = [( \$1,264.96 -	963.54 ) *	0.4776 ]/	7.46%			
CR = ( 301.42 *	0.4776 )/	7.46% = \$	1,930			

Daufuskie Island Utility Company, Inc. PSC Docket No. 2018-364-W/S

CR = (

196.15 \*

Exhibit JFG 3

### Extension of Mains Refund Formula Estimated Noller Annual Revenue

Water System

Refund Formula: Credit per ERC = [(A - (A \* B/C)) \* D/E]/r

			rage annual revenue		custome	er (ERC).						\$606.20	
			l utility operating ex	•								\$824,974	
			I utility operating rev									\$1,020,831	
	D =	Inve	stment in T&D Main	s or Collection S	System.			UPIS		\$1,509,688			
								CIAC		-\$406,881			
								A/D		-\$210,212		\$892,596	
	E =	Tota	l Net Plant Investme	nt.				UPIS		\$3,905,258			
								CIAC		-\$406,881			
								A/D		-\$382,950		\$3,115,427	
	r =	Ovei	rall Rate of Return.									7.46%	
Calculation	on:												
	CR =	[(	\$606.20 -(	\$606.20	*	824,974	/	1,020,831	)) *	892,596	/	3,115,427 ] /	7.46%
	CR =	[(	\$606.20 -	489.90 )	*	0.2865	]/	7.46%					
	CR =	(	116.31 *	0.2865 )	/	7.46%	= \$	447	:				
						Sewer	System						
						Sewer	System						
	A =	Aver	rage annual revenue	per residential	custome		System					\$823.18	
			rage annual revenue	-	custome		System					\$823.18 \$763,944	
	B =	Tota	_	pense.	custome		System						
	B = C =	Tota Tota	l utility operating ex	pense. venue.			System	UPIS		\$2,118,279		\$763,944	
	B = C =	Tota Tota	I utility operating ex	pense. venue.			System	UPIS CIAC		\$2,118,279 -\$183,932		\$763,944	
	B = C =	Tota Tota	I utility operating ex	pense. venue.			System					\$763,944	
	B = C = D =	Tota Tota Inve	I utility operating ex	pense. venue. s or Collection S			System	CIAC		-\$183,932		\$763,944 \$1,002,928	
	B = C = D =	Tota Tota Inve	Il utility operating ex Il utility operating rev stment in T&D Main:	pense. venue. s or Collection S			System	CIAC A/D		-\$183,932 -\$268,073		\$763,944 \$1,002,928	
	B = C = D =	Tota Tota Inve	Il utility operating ex Il utility operating rev stment in T&D Main:	pense. venue. s or Collection S			System	CIAC A/D UPIS		-\$183,932 -\$268,073 \$4,077,571		\$763,944 \$1,002,928	
	B = C = D =	Tota Tota Inve	Il utility operating ex Il utility operating rev stment in T&D Main:	pense. venue. s or Collection S			System	CIAC A/D UPIS CIAC		-\$183,932 -\$268,073 \$4,077,571 -\$183,932		\$763,944 \$1,002,928 \$1,666,274	
Calculatio	B = C = D = E = r =	Tota Tota Inve	al utility operating ex al utility operating rev stment in T&D Main: al Net Plant Investme	pense. venue. s or Collection S			System	CIAC A/D UPIS CIAC		-\$183,932 -\$268,073 \$4,077,571 -\$183,932		\$763,944 \$1,002,928 \$1,666,274 \$3,488,951	
Calculatio	B = C = D = E = r = con:	Tota Tota Inve	al utility operating ex al utility operating rev stment in T&D Main: al Net Plant Investme	pense. venue. s or Collection S	System.		System /	CIAC A/D UPIS CIAC	))*	-\$183,932 -\$268,073 \$4,077,571 -\$183,932	/	\$763,944 \$1,002,928 \$1,666,274 \$3,488,951	7.46%

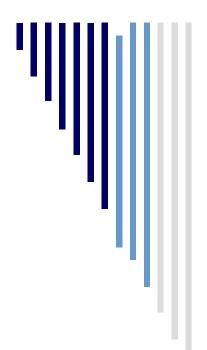
7.46% = \$

1,256

0.4776 )/

# Guastella Associates, LLC

# **Qualifications & Experience**



Rate Setting
Valuation
Management
Consulting

...SERVING REGULATED AND UNREGULATED WATER AND WASTEWATER UTILITIES SINCE 1978

# INTRODUCTION GUASTELLA ASSOCIATES, LLC

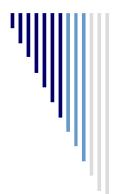
Guastella Associates, LLC ("formerly John F. Guastella Associates, Inc.") is a consulting firm that specializes in providing utility rate setting, valuation and management services for public and privately-owned water and wastewater utilities.

John F. Guastella established Guastella Associates in 1978. Previously, Mr. Guastella was Director of the Water Division of the New York Public Service Commission. The Water Division provided the New York Commission with technical assistance in regulating the rates and service provided by approximately 450 privately-owned utilities. During the period from 1987 through 1991, Mr. Guastella also managed a 5,500 customer water utility in New York State. In 1989, Guastella Associates acquired the rates and valuation section of Coffin & Richardson, Inc., a general consulting firm that also provided a full range of services to water and wastewater utilities. Since 2009, Guastella Associates has served as the general manager of Daufuskie Island Utility Company, Inc. ("DIUC"), responsible for its day-to-day operations, billing, bookkeeping, financing, capital improvement projects and regulatory relations. DIUC provides water and wastewater service to some 550 connected customers and 600 availability customers located on Daufuskie Island, South Carolina.

As can be seen from the following qualifications and experience, key staff members have many years of combined experience in virtually every aspect of utility rate setting and valuation. The technical expertise of key staff, combined with their former employment by real estate and utility companies, a regulatory agency, and the management of water utilities, provides a total perspective towards addressing the rates and valuation needs of today's water and wastewater utilities.

Guastella Associates has assisted the largest privately-owned utilities with respect to the most challenging issues, performing complex studies and providing expert testimony in administrative hearings as well as court proceedings. In addition, our client base has included hundreds of small water and wastewater utilities - - obtaining rate increases that turn operating losses into profits, posturing them for financing, correcting record keeping errors and, for some, negotiating their sale at multiples of their original cost net investment rate base. Some of our most successful assignments have been to help establish new developer-related water and wastewater utilities, applying the correct principles at the outset in order to develop fully compensatory initial rates, record keeping procedures and asset management, so they are structured to become self-sustaining utilities that will achieve the highest possible profit and ultimate market value.

Our wide-range of experience and expertise has enabled us to successfully address the special needs of large investor-owned utilities in rate cases and condemnation proceedings.



# OUTLINE OF SERVICES GUASTELLA ASSOCIATES, LLC

Guastella Associates, LLC ("formerly John F. Guastella Associates, Inc.") is a consulting firm specializing in utility management, valuation, appraisals and rate determinations. Guastella Associates has been providing professional services to regulated and unregulated utilities since 1978.

Specific areas of expertise includes:

#### I. RATE ANALYSIS

#### A. Revenue Requirements

- 1. Examination of books and records -- revenues, expenses and capital investment.
- Determination of the cost of providing service (revenue requirement) -- normalize historical data, establish known changes and perform projections.

#### B. Rate Design

- 1. Perform cost allocation studies to establish cost of service for residential, commercial, industrial, wholesale and fire protection customers, and for other special users.
- 2. Develop rate structures -- combine billing analyses and cost allocations to form usage rates, flat rates, minimum service and facilities charges, and such other special charges as connection fees, availability rates, etc.

#### C. Reports

- 1. Investor-owned utilities -- prepare complete rate filings for submission to regulatory agencies; prepare testimony, exhibits, and assist in all aspects of adjudication process.
- 2. Municipal utilities -- prepare detailed rate reports in support of rate increases for use by municipal officials and presentation at municipal hearings.



# OUTLINE OF SERVICES GUASTELLA ASSOCIATES, LLC

#### II. VALUATIONS

#### A. Appraisals

- 1. Eminent domain condemnation proceedings, negotiations for sale of utilities, damage claims for insurance and ad valorem tax and management purposes.
- 2. Determinations of original cost, replacement cost, reproduction cost and market value, including going concern value.
- 3. Calculation of the present value of cash flow under the income approach to market value determinations.
- 4. Analyses of market data under the sales comparison approach.

#### B. Depreciation

- 1. Actuarial studies using retirement rate or simulated plant balances methods to determine average service lives of physical property, theoretical depreciation reserve requirements and depreciation rates.
- 2. Establish affordable depreciation rates on the basis of comparative analyses of similar property of other utilities and practices of regulatory agencies and association

#### C. Feasibility Studies

- 1. Utility acquisitions by investors and municipalities.
- 2. Economic studies to establish extension of service costs and policy -- inside and outside service area.
- 3. Main extension agreements, guaranteed revenue contracts, refund provisions.

#### D. Financial Planning

- 1. Establish financing requirements for capital improvements.
- 2. Determine revenue and rate needs for various combinations of debt and equity financing.
- 3. Assist certain utilities in securing financing.
- 4. Establish financing needs, initial rates and regulatory approval of proposed new utilities.

#### III. MANAGEMENT

#### A. Operations

- 1. Provides general management of water and wastewater utilities.
- 2. Assist in day-to-day decisions as to utility accounting and related impact on rates.
- 3. Solve problems as to record keeping in accordance with regulatory requirements and prescribed systems of accounts.
- 4. Establish general policy and tariff provisions for customer service, billing, collecting, meter testing, complaint handling, and customer and regulatory relations.

#### B. Administrative

- 1. Coordinate activities with regulatory agencies to assure compliance with rules, regulations and orders.
- 2. Negotiations for purchase or sale of utility property and special contracts.

#### C. <u>Training</u>

- 1. On-the-job training for employees while working on various projects.
- 2. Special educational seminars on all aspects of utility rate settings, financing, valuation and rules.

# PROFESSIONAL QUALIFICATIONS AND EXPERIENCE of JOHN F. GUASTELLA

B.S., Mechanical Engineering, Stevens Institute of Technology, 1962

#### Member:

American Water Works Association, Lifetime Member National Association of Water Companies New England Water Works Association, Lifetime Member

#### Committees:

AWWA, Water Rates Committee (Water Rates Manual M-1, 1983 Edition)
National Association of Regulatory Utility Commissioners (NARUC) and NAWC, Joint-Committee on Rate Design
NAWC, Rates and Revenues Committee
NAWC, Small Water Company Committee

Mr. Guastella is President of Guastella Associates, LLC ("formerly John F. Guastella Associates, Inc.") which provides management, valuation and rate consulting services for municipal and investor-owned utilities, as well as regulatory agencies. His clients include utilities in the states of Alaska, Arizona, Arkansas, California, Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Maine, Maryland, Massachusetts, Missouri, Michigan, Montana, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Dakota, Ohio, Pennsylvania, South Carolina, Texas, Rhode Island and Virginia. He has provided consulting services that include all aspects of utility regulation and rate setting, encompassing revenue requirements, revenues, operation and maintenance expenses, depreciation, taxes, return on investment, cost allocation and rate design. He has performed depreciation studies for the establishment of average service lives and depreciation rates of utility property. He has performed appraisals of utility companies for management purposes and in connection with condemnation proceedings. He has also negotiated the sale of utility companies. He directs the general management of a water and wastewater utility in South Carolina.

Mr. Guastella served for more than four years as President of Country Knolls Water Works, Inc., a water utility that served some 5,500 customers in Saratoga County, New York. He also served as a member of the Board of Directors of the National Association of Water Companies.

Mr. Guastella has qualified and testified as an expert witness before regulatory agencies and municipal jurisdictions in the states of Alaska, Arizona, California, Connecticut, Delaware, Florida, Georgia, Illinois, Indiana, Maryland, Massachusetts, Missouri, Montana, Nevada, New Hampshire, New Mexico, New Jersey, New York, North Dakota, Ohio, Pennsylvania, Rhode Island, South Carolina, Texas and Virginia.

Prior to establishing his own firm, Mr. Guastella was employed by the New York State Public Service Commission for sixteen years. For two years he was involved in the regulation of electric and gas utilities, with the remaining years devoted to the regulation of water utilities. In 1970, he was promoted to Chief of Rates and Finance in the Commission's Water Division. In 1972, he was made Assistant Director of the Water Division. In 1974, he was appointed by Alfred E. Kahn, then Chairman of the Commission, to be Director of the Water Division, a position he held until he resigned from the Commission in August 1978.

At the Commission, his duties included the performance and supervision of engineering and economic studies concerning rates and service of many public utilities. As Director of the Water Division, he was responsible for the regulation of more than 450 water companies in New York State and headed a professional staff of 32 engineers and three technicians. A primary duty was to attend Commission sessions and advise the Commission during its decision making process. In the course of that process, an average of about fifty applications per year would be reviewed and analyzed. The applications included testimony, exhibits and briefs

Resume: JFG

involving all aspects of utility valuation and rate setting. He also made legislative proposals and participated in drafting Bills that were enacted into law: one expanded the N.Y. Public Service Commission's jurisdiction over small water companies and another dealt specifically with rate regulation and financing of developer-related water systems.

In addition to his employment and client experience, Mr. Guastella served as Vice-Chairman of the Staff-Committee on Water of the National Association of Regulatory Utility Commissioners (NARUC). This activity included the preparation of the "Model Record-Keeping Manual for Small Water Companies," which was published by the NARUC. This manual provides detailed instruction on the kinds of operation and accounting records that should be kept by small water utilities, and on how to use those records.

Each year since 1974 he has prepared study material, assisted in program coordination and served as an instructor at the Eastern Annual Seminar on Water Rate Regulation sponsored over the years by the NARUC in conjunction with the University of South Florida, Florida Atlantic University, the University of Utah, Florida State University, the University of Florida and currently Michigan State University. In 1980 he was instrumental in the establishment of the Western NARUC Rate Seminar and has annually served as an instructor since that time. This course is recognized as one of the best available for teaching rate-setting principles and methodology. More than 7,500 students have attended this course, including regulatory staff, utility personnel and members of accounting, engineering, legal and consulting firms throughout the country.

Mr. Guastella served as an instructor and panelist in a seminar on water and wastewater regulation conducted by the Independent Water and Sewer Companies of Texas. In 1998, he prepared and conducted a seminar on basic rate regulation on behalf of the New England Chapter of the National Association of Water Companies. In 2000 and 2001, Mr. Guastella developed and conducted a special seminar for developer related water and wastewater utilities in conjunction with Florida State University, and again in 2003 in conjunction with the University of Florida. It provided essential training for the financial structuring of small water and wastewater utilities, rate setting, financing and the establishment of their market value in the event of a negotiated sale or condemnation. In 2004, he prepared and conducted a special workshop seminar on behalf of the Office of Regulatory Staff of South Carolina, covering rate setting, valuation and general regulation of water and wastewater utilities. In 2006, he participated in an expert workshop on full cost pricing conducted by the U. S. Environmental Protection Agency in coordination with the Institute of Public Utilities, Michigan State University. In 2006 and again in 2013, he prepared and conducted a special seminar on rate setting and valuation on behalf of the New York Chapter of the NAWC. In 2007 and again in 2015, he prepared and conducted a special seminar on rate setting and valuation on behalf of the New England Chapter of NAWC.

Mr. Guastella has made presentations on a wide variety of rate, valuation and regulatory issues at meetings of the National Association of Regulatory Utility Commissioners, the American Water Works Association, the New England Water Works Association, the National Association of Water Companies, the New England Conference of Public Utilities Commissioners, the Florida, New England, New Jersey and New York Chapters of NAWC, the Mid-America Regulatory Conference, the Southeastern Association of Regulatory Utility Commissioners, the Pennsylvania Environmental Conference, the Public Utility Law Section of the New Jersey Bar Association, and the NAWC Water Utility Executive Council.

Resume: JFG

Year	Client	State	Regulatory Docket/Case Number
1966	Sunhill Water Corporation	New York	23968
1967	Amagansett Water Company	New York	24210
1967	Worley Homes, Inc.	New York	24466
1968	Amagansett Water Company	New York	24718
1968	Amagansett Water Company	New York	24883
1968	Sunhill Water Corporation	New York	23968
1968	Worley Homes, Inc.	New York	Supreme Court
1969	Amagansett Water Supply	New York	24883
1969	Citizens Water Supply Co.	New York	25049
1969	Worley Homes, Inc.	New York	24466/24992
1970	Brooklyn Union Gas Company	New York	25448
1970	Consolidated Edison of New York	New York	25185
1971	Hudson Valley Water Companies	New York	26093
1971	Jamaica Water Supply Company	New York	26094
1971	Port Chester Water Works, Inc.	New York	25797
1971	U & I Corp Merrick District	New York	26143
1971	Wanakah Water Company	New York	25873
1972	Spring Valley Water Company	New York	26226
1972	U & I Corp Woodhaven District	New York	26232
1973	Citizens Water Supply Company	New York	26366
1978	Rhode Island DPU&C (Bristol County)	Rhode Island	1367A
1979	Candlewick Lake Utilities Co.	Illinois	76-0218
1979	Candlewick Lake Utilities Co.	Illinois	76-0347
1979	Candlewick Lake Utilities Co.	Illinois	78-0151
1979	Jacksonville Suburban Utilities	Florida	770316-WS
1979	New York Water Service Corporation	New York	27594
1979	Salem Hills Sewerage Disposal Corp. v. V. of Voorheesville	New York	Supreme Court

Year	Client	State	Regulatory Docket/Case Number
1979	Seabrook Water Corporation	New Jersey	7910-846
1979	Southern Utilities Corporation	Florida	770317-WS
1979	Township of South Brunswick	New Jersey	Municipal
1979	Westchester Joint Water Works	New York	Municipal
1979	Woodhaven Utilities Corporation	Illinois	77-0109
1980	Crestwood Village Sewer Company	New Jersey	BPU 802-78
1980	Crestwood Village Water Company	New Jersey	BPU 802-77
1980	Gateway Water Supply Corporation	Texas	Municipal
1980	GWW-Central Florida District	Florida	800004-WS
1980	Jamaica Water Supply Company	New York	27587
1980	Rhode Island DPU&C (Newport Water)	Rhode Island	1480
1981	Briarcliff Utilities, Inc.	Texas	3620
1981	Candlewick Lake Utilities Co.	Illinois	81-0011
1981	Caroline Water Company, Inc.	Virginia	810065
1981	GDU, Inc Northport	Florida	Municipal
1981	GDU, Inc Port Charlotte	Florida	Municipal
1981	GDU, Inc Port Malabar	Florida	80-2192
1981	Hobe Sound Water Company	Florida	8000776
1981	Lake Buckhorn Utilities, Inc.	Ohio	80-999
1981	Lake Kiowa Utilities, Inc.	Texas	3621
1981	Lakengren Utilities, Inc.	Ohio	80-1001
1981	Lorelei Utilities, Inc.	Ohio	80-1000
1981	New York Water Service Corporation	New York	28042
1981	Rhode Island DPU&C (Newport Water)	Rhode Island	1581
1981	Shawnee Hills Utility Company	Ohio	80-1002
1981	Smithville Water Company, Inc.	New Jersey	808-541
1981	Spring Valley Water Company, Inc.	New York	27936
1981	Spring Valley Water Company, Inc.	New York	27936
1981	Sunhill Water Corporation	New York	27903

Year	Client	State	Regulatory Docket/Case Number
1981	Swan Lake Water Corporation	New York	27904
1982	Chesterfield Commons Sewer Company	New Jersey	822-84
1982	Chesterfield Commons Water Company	New Jersey	822-83
1982	Crescent Waste Treatment Corp.	New York	Municipal
1982	Crestwood Village Sewer Company	New Jersey	821-33
1982	Crestwood Village Water Company	New Jersey	821-38
1982	Salem Hills Sewerage Disposal Corp.	New York	Municipal
1982	Township of South Brunswick	New Jersey	Municipal
1982	Woodhaven Utilities Corporation	Illinois	82-0167
1983	Country Knolls Water Works, Inc.	New York	28194
1983	Heritage Hills Water Works Corp.	New York	28453
1984	Crestwood Village Sewer Company	New Jersey	8310-861
1984	Crestwood Village Water Company	New Jersey	8310-860
1984	Environmental Disposal Corp.	New Jersey	816-552
1984	GDU, Inc Port St. Lucie	Florida	830421
1984	Heritage Village Water (water/sewer)	Connecticut	84-08-03
1984	Hurley Water Company, Inc.	New York	28820
1984	New York Water Service Corporation	New York	28901
1985	Deltona Utilities (water/sewer)	Florida	830281
1985	J. Filiberto Sanitation, Inc.	New Jersey	8411-1213
1985	Sterling Forest Pollution Control	New York	Municipal
1985	Water Works Enterprise, Grand Forks	North Dakota	Municipal
1986	GDU, Inc Port Charlotte	Florida	Municipal
1986	GDU, Inc Sebastian Highlands	Florida	Municipal
1986	Kings Grant Water/Sewer Companies (settled)	New Jersey	WR8508-868
1986	Mt. Ebo Sewage Works, Inc.	New York	Municipal
1986	Sterling Forest Pollution Control	New York	Municipal
1987	Country Knolls Water Works, Inc.	New York	29443
1987	Crestwood Village Sewer Co. (settled)	New Jersey	WR8701-38

Year	Client	State	Regulatory Docket/Case Number
1987	Deltona Utilities – Marco Island	Florida	85151-WS
1987	Deltona Utilities, Inc Citrus Springs (settled)	Florida	870092-WS
1987	First Brewster Water Corp. v. Town of Southeast (settled)	) New York	Supreme Court
1987	GDU, Inc Silver Springs Shores	Florida	870239-WS
1987	Ocean County Landfill Corporation	New Jersey	SR-8703117
1987	Palm Coast Utility Corporation	Florida	870166-WS
1987	Sanlando Utilities Corp. (settled)	Florida	860683-WS
1987	Township of South Brunswick	New Jersey	Municipal
1987	Woodhaven Utilities Corp. (settled)	Illinois	87-0047
1988	Crescent Estates Water Co., Inc.	New York	88-W-035
1988	Elizabethtown Water Co.	New Jersey	OAL PUC3464-88
1988	Heritage Village Water Company	Connecticut	87-10-02
1988	Instant Disposal Service, Inc.	New Jersey	SR-87080864
1988	J. Filiberto Sanitation v. Morris County Transfer Station	New Jersey	01487-88
1988	Ohio Water Service Co.	Ohio	86-1887-WW-CO1
1988	St. Augustine Shores Utilities	Florida	870980-WS
1989	Elizabethtown Water Co.	New Jersey	BPU WR89020132J
1989	GDU (FPSC generic proceeding as to rate setting procedures)	Florida	880883-WS
1989	Gordon's Corner Water Co.	New Jersey	OAL PUC479-89
1989	Heritage Hills Sewage Works	Connecticut	Municipal
1989	Heritage Village Water Company	Connecticut	87-10-02
1989	Palm Coast Utility Corporation	Florida	890277-WS
1989	Southbridge Water Supply Co.	Massachusetts	DPU 89-25
1989	Sterling Forest Water Co.	New York	PSC 88-W-263
1990	American Utilities, Inc United States Bankruptcy Court	New Jersey	85-00316
1990	City of Carson City	Nevada	Municipal
1990	Country Knolls Water Works, Inc.	New York	90-W-0458
1990	Elizabethtown Water Company	New Jersey	WR900050497J

Year	Client	State	Regulatory Docket/Case Number
1990	Kent County Water Authority	Rhode Island	1952
1990	Palm Coast Utility Corporation	Florida	871395-WS
1990	Southern States Utilities, Inc.	Florida	Workshop
1990	Trenton Water Works	New Jersey	WR90020077J
1990	Waste Management of New Jersey	New Jersey	SE 87070552
1990	Waste Management of New Jersey	New Jersey	SE 87070566
1991	City of Grand Forks	North Dakota	Municipal
1991	Gordon's Corner Water Co.	New Jersey	OAL PUC8329-90
1991	Southern States Utilities, Inc.	Florida	900329-WS
1992	Elizabethtown Water Co.	New Jersey	WR 91081293J
1992	General Development Utilities, Inc Port Malabar Division	Florida	911030-WS
1992	General Development Utilities, Inc West Coast Division	Florida	911067-WS
1992	Heritage Hills Water Works, Inc.	New York	92-2-0576
1993	General Development Utilities, Inc Port LaBelle Division	Florida	911737-WS
1993	General Development Utilities, Inc Silver Springs Shores	Florida	911733-WS
1993	General Waterworks of Pennsylvania - Dauphin Cons. Water Supply	Pennsylvania	R-00932604
1993	Kent County Water Authority	Rhode Island	2098
1993	Southern States Utilities - FPSC Rulemaking	Florida	911082-WS
1993	Southern States Utilities - Marco Island	Florida	920655-WS
1994	Capital City Water Company	Missouri	WR-94-297
1994	Capital City Water Company	Missouri	WR-94-297
1994	Elizabethtown Water Company	New Jersey	WR94080346
1994	Elizabethtown Water Company	New Jersey	WR94080346
1994	Environmental Disposal Corp.	New Jersey	WR94070319
1994	General Development Utilities - Port Charlotte	Florida	940000-WS
1994	General Waterworks of Pennsylvania	Pennsylvania	R-00943152

Year	Client	State	Regulatory Docket/Case Number
1994	Hoosier Water Company - Mooresville Division	Indiana	39839
1994	Hoosier Water Company - Warsaw Division	Indiana	39838
1994	Hoosier Water Company - Winchester Division	Indiana	39840
1994	West Lafayette Water Company	Indiana	39841
1994	Wilmington Suburban Water Corporation	Delaware	94-149 (stld)
1995	Butte Water Company	Montana	Cause 90-C-90
1995	Heritage Hills Sewage Works Corporation	New York	Municipal
1996	Consumers Illinois Water Company	Illinois	95-0342
1996	Elizabethtown Water Company	New Jersey	WR95110557
1996	Palm Coast Utility Corporation	Florida	951056-WS
1996	PenPac, Inc.	New Jersey	OAL-00788-93N
1996	Southern States Utilities, Marco Island	Florida	950495-WS
1997	Crestwood Village Water Company	New Jersey	BPU 96100739
1997	Indiana American Water Co., Inc.	Indiana	IURC 40703
1997	Missouri-American Water Company	Missouri	WR-97-237
1997	South County Water Corp	New York	97-W-0667
1997	United Water Florida	Florida	960451-WS
1998	Consumer Illinois Water Company	Illinois	98-0632
1998	Consumers Illinois Water Company	Illinois	97-0351
1998	Heritage Hills Water Company	New York	97-W-1561
1998	Missouri-American Wastewater Company	Missouri	SR-97-238
1999	Consumers Illinois Water Company	Illinois	99-0288
1999	Environmental Disposal Corp.	New Jersey	WR99040249
1999	Indiana American Water Co., Inc.	Indiana	IURC 41320
2000	South Haven Sewer Works, Inc.	Indiana	Cause: 41410
2000	Utilities Inc. of Maryland	Maryland	CAL 97-17811
2001	Artesian Water Company	Delaware	00-649
2001	Citizens Utilities Company	Illinois	01-0001
2001	Elizabethtown Water Company	New Jersey	WR-0104205

Year	Client	State	Regulatory Docket/Case Number
2001	Kiawah Island Utility, Inc.	South Carolina	2001-164-W/S
2001	Placid Lakes Water Company	Florida	011621-WU
2001	South Haven Sewer Works, Inc.	Indiana	41903
2001	Southlake Utilities, Inc.	Florida	981609-WS
2002	Artesian Water Company	Delaware	02-109
2002	Consumers Illinois Water- Grant Park	Illinois	02-0480
2002	Consumers Illinois Water- Village Woods	Illinois	02-0539
2002	Valencia Water Company	California	02-05-013
2003	Consumers Illinois Water - Indianola	Illinois	03-0069
2003	Elizabethtown Water Company	New Jersey	WR-030-70510
2003	Golden Heart Utilities, Inc.	Alaska	U-02-13, 14 & 15
2003	Utilities, Inc. – Georgia	Georgia	CV02-0495-AB
2004	Aquarion Water Company	Connecticut	04-02-14
2004	Artesian Water Company	Delaware	04-42
2004	El Dorado Utilities, Inc.	New Mexico	D-101-CU-2004-
2004	Environmental Disposal Corp.	New Jersey	DPU WR 03 070509
2004	Heritage Hills Water Company	New York	03-W-1182
2004	Sun Valley Water & Washoe County Dept. of Water Revenues	Nevada	TMWA Municipal
2004	Jersey City MUA	New Jersey	Municipal
2004	Rockland Electric Company	New Jersey	EF02110852
2005	Aquarion Water Company	New Hampshire	DW 05-119
2005	Intercoastal Utilities, Inc.	Florida	04-0007-0011-0001
2005	Haig Point Utility Company, Inc.	South Carolina	2005-34-W/S
2005	South Central Connecticut Regional Water Auth.	Connecticut	Municipal
2006	Pennichuck Water Works, Inc.	New Hampshire	DW-04048
2006	Village of Williston Park	New York	Municipal
2006	Jersey City MUA	New Jersey	Municipal
2006	Groton Utilities	Connecticut	Municipal

Year	Client	State	Regulatory Docket/Case Number
2006	Connecticut Water Company	Connecticut	06-07-08
2006	Birmingham Utilities, Inc.	Connecticut	06-05-10
2006	Aqua Florida Utilities, Inc.	Florida	060368-WS
2007	Aquarion Water Company of CT	Connecticut	07-05-19
2007	Pennichuck Water Works, Inc.	New Hampshire	DW 04-048
2007	Aqua Indiana - Utility Center	Indiana	43331
2007	Environmental Disposal Corp.	New Jersey	WR 04 080760
2007	Aqua Florida Utilities, Inc.	Florida	07-0183
2007	Aqua Illinois, Inc Hawthorn Woods, Willowbrook & Vermilion	Illinois	07-0620/07-0621/08-0067
2008	Aqua Florida Utilities, Inc.	Florida	080121-WS
2008	Aquarion Water Company of MA	Massachusetts	D.P.U. 08-27
2008	Haig Point Utility Company, Inc.	South Carolina	2007-414-WS
2009	R.M.V. Land & C.M. Livestock, L.C.C.	New Jersey	EM02050313
2010	City of Griffin	Georgia	Civil Action No. 09V-2866
2010	Connecticut Water Company	Connecticut	09-12-11
2010	Montville WPCA	Connecticut	1400012464
2010	Milford Water Company	Massachusetts	DPU 10-78
2010	Arizona American Water Company	Arizona	W-01303A-10-0448
2011	Aqua Illinois	Illinois	ICC Docket (Consolidated)
2011	Artesian Water Company	Maryland	MPSC Case 9252
2011	Artesian Water Company	Delaware	PSC 11-207
2011	Kiawah Island Utility, Inc.	South Carolina	2011-317-WS
2012	Washington Gas Light	Maryland	Senate SB541
2012	Washington Gas Light	Maryland	House HB662
2012	Daufuskie Island Utility	South Carolina	2011-229-W/S
2012	Milford Water Company	Massachusetts	DPU 12-86
2013	Artesian Water Company	Pennsylvania	2:10-CV-07453-JP
2013	Aquarion Water Company - Oxford	Massachusetts	CA 09-00592E

Year	Client	State	Regulatory Docket/Case Number
2013	Water Management Services	Florida	110200-WU
2013	City of Fernandina Beach	Florida	Civil Action No. 13CA000485AXYX
2013	City of Elizabeth	New Jersey	Docket Nos. UNN-L-0556-10 and UNN-L-2608-11
2014	Daufuskie Island Utility Company, Inc.	South Carolina	Case No. 2013-CP-7-02255
2014	Artesian Water Company	Delaware	Docket No. PSC 14-132
2014	Aquarion Water Company - Hingham	New Hampshire	SUCU 2013-03159-BLS2
2015	EPCOR	Arizona	ACC Docket # WS-01303A-14-0010
2015	Mountain Water Company	Montana	Case # DV-14-352
2015	Daufuskie Island Utility Company, Inc.	South Carolina	Docket No. 2014-346-WS
2015	Housatonic Water Works	Massachusetts	D.P.U. 15-179
2016	Epcor Water Arizona	Arizona	Docket No. W501303A-16-0145
2016	Community Utilities of Indiana	Indiana	Case No. 44724
2016	Utilities Inc. Of Florida	Florida	Docket No. 16101-WS
2017	Epcor Water Arizona	Arizona	Docket No. W10303A-17-0141
2017	Aquarion Water Company Of Massachusetts	Massachusetts	D.P.U. 17-90
2017	Milford Water Company	Massachusetts	D.P.U. 17-10
2018	Water Service Corporation of Kentucky	Kentucky	Case No. 2018 - 00208

# Papers and Presentations By John F. Guastella

Year	Title	Forum
1974 through 2018	<ol> <li>Basics of Rate Setting</li> <li>Cost Allocation and Rate Design</li> <li>Revenue Requirements</li> </ol>	Semi-annual seminars on utility rate regulation, National Association of Regulatory Utility Commissioners, sponsored by the University of South Florida, the University of Utah, Florida State University, The University of Florida and currently Michigan State University
1974	Rate Design Studies: A Regulatory Point-of- View	Annual convention of the National Association of Water Companies, New Haven, Connecticut
1976	Lifeline Rates	Annual convention of the National Association of Water Companies, Chattanooga, Tennessee
1977	Regulating Water Utilities: The Customers' Best Interest	Annual symposium of the New England Conference of Public Utilities Commissioners, Mystic Seaport, Connecticut
1978	Rate Design: Preaching v. Practice	Annual convention of the National Association of Water Companies, Baton Rouge, Louisiana
1979	Small Water Companies	Annual symposium of the New England Conference of Public Utilities Commissioners, Newport, Rhode Island
1979	Rate Making Problems Peculiar to Private Water and Sewer Companies	Special educational program sponsored by Independent Water and Sewer Companies of Texas, Austin, Texas
1980	Water Utility Regulation	Annual meeting of the National Association of Regulatory Utility Commissioners, Houston, Texas
1981	The Impact of Water Rates on Water Usage	Annual Pennsylvania Environmental Conference, Harrisburg, Pennsylvania
1981	A Realistic Approach to Regulating Water Utilities	Mid-America Regulatory Conference, Clarksville, Indiana
1982	Issues in Water Utility Regulation	Annual symposium of the New England Conference of Public Utilities Commissioners, Rockport, Maine
1982	New Approaches to the Regulation of Water Utilities	Southeastern Association of Regulatory Utility Commissioners, Asheville, North Carolina
1983	Allocating Costs and Revenues Fairly and Effectively	Maryland Water and Sewer Finance Conference, Westminster, Maryland
1983	Lifeline and Social Policy Pricing	Annual conference of the American Water Works Association, Las Vegas, Nevada (published)
1984	The Real Cost of Service: Some Special Considerations	Annual New Jersey Section AWWA Spring Meeting, Atlantic City, New Jersey
1987	Margin Reserve: It's Not the Issue	Florida Waterworks Association Newsletter, April/May/June 1987 issue

# Papers and Presentations By John F. Guastella

Year	Title	Forum
1987	A "Current" Issue: CIAC	NAWC - New England Chapter November 6, 1987 meeting
1988	Small Water Company rate Setting: Take It or Leave It	NAWC - New York Chapter June 14, 1988 meeting
1989	The Solution to all the Problems of Good Small Water Companies	NAWC Quarterly magazine, Winter issue
1989	Current Issues Workshop - Panel	New England Conference of Public Utilities Commissioners, Kennebunkport, Maine
1991	Alternative Rate Structures	New Jersey Section 1991 Annual Conference, AWWA, Atlantic City, New Jersey
1994	Conservation Impact on Water Rates	New England NAWC and New England AWWA, Sturbridge, Massachusetts
1996	Utility Regulation - 21st Century	NAWC Annual Meeting, Orlando, Florida
1997	Current Status Drinking Water State Revolving Fund	NAWC Annual Meeting, San Diego, California
1998	Small Water Companies - Problems and Solutions	NAWC Annual Meeting, Indianapolis, Indiana
1998	Basic Rate Regulation Seminar	New England Chapter - NAWC, Rockport, Maine
2000	Developer Related Water and Sewer Utilities Seminar	Florida State University, Orlando, Florida
2001	Developer Related Water and Sewer Utilities Seminar	Florida State University, Orlando, Florida
2002	Regulatory Cooperation - Small Company Education	New England Chapter - NAWC, Annual Meeting
2003	Developer Related Water and Sewer Utilities Seminar	University of Florida, Orlando, Florida
2004	Basic Regulation & Rate Setting Training Seminar	Office of Regulatory Staff, Columbia, South Carolina
2005	Municipal Water Rates	Nassau-Suffolk Water Commissioners Association, Franklin Square, New York
2005	Innovations in Rate Setting and Procedures	NAWC New York Chapter, West Point, New York

# Papers and Presentations By John F. Guastella

Year	Title	Forum
2006	Basics of Rate Setting	The Connecticut Water Company, Clinton, Connecticut
2006	Innovations in Rate Setting and Procedures	NAWC New York Chapter, Catskill, New York
2006	Best Practices as Regulatory Policy	NAWC New England Chapter, Ogunquit, Maine
2006	Rate and Valuation Seminar	NAWC New York Chapter
2006	Full Cost Pricing	U.S. Environmental Protection Agency Expert Workshop, Lansing, Michigan
2006	Innovations in Rate Setting	NAWC New England Chapter, Portsmouth, New Hampshire
2007	Weather Sensitive Customer Demands	NAWC Water Utility Executive Council, Half Moon Bay, California
2007	Basics of Rate Setting and Valuation Seminar	NAWC New England Chapter, Ogunquit, Maine
2007	Small Company Characteristics	National Drinking Water Symposium, La Jolla, California
2013	Rate and Valuation Seminar	NAWC New York Chapter
2015	Rate and Valuation Seminar	NAWC New England Chapter